



# CLARK COUNTY DEPARTMENT OF BUILDING

## Fire Prevention Bureau

4701 West Russell Road, Las Vegas, NV 89118  
(702) 455-7316 FAX (702) 455-7347

**OTC-004**

Effective Date: 09/30/2013


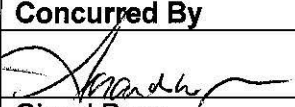

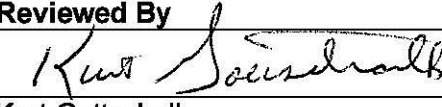
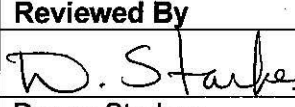
Revision Date:

**TITLE: OVER THE COUNTER (OTC) PLAN REVIEW  
IN-BUILDING RISER**

**SCOPE:** The installation of pipe between the underground piping typically shown on underground fire service mains (which end at approximately 5 feet from the edge of the building) and the connection inside of the building to the fire protection system.

The following is required for all submittals:

- ☐ Project Address, Contractor Name, Contractor Phone Number, APN (APN on Application Form is acceptable).
- ☐ A top-view drawing showing the building outline and the location of the fire riser. The riser must be located in a riser room that has an exterior access door. The run under the building is to be minimized (NFPA 13 Section 10.6). Anything longer than 5 feet under a building requires special approval outside of the OTC process.
- ☐ A section view detail of the in-building riser showing the pipe depth of bury below grade, the orientation of the wall and foundation of the building with respect to the in-building riser (verify run under the building again), the method of joint restraint (i.e. thrust block), the diameter of the piping, and the height of the end of the in-building riser above the building floor (minimum of 1-foot above the floor).
- ☐ Verify a description of the riser materials. For factory-built in-building risers, provide a copy of the manufacturer specifications. For field-constructed in-building risers, provide a description of the materials used. Ensure type of material, i.e. stainless steel, ductile iron, C900 CPVC, etc. complies with permitted materials in NFPA 13 Table 10.1.1.

Prepared By	Concurred By	Approved By
		
Stephen DiGiovanni Fire Dept Protection Engineer	Girard Page Senior Deputy Fire Chief	Ron Lynn Building Official
Reviewed By	Reviewed By	
		
Kurt Gottschalk Deputy Fire Marshal	Donna Starkes Deputy Fire Marshal	

- ☐ Verify a description of the method of corrosion protection for any metallic components, including stainless steel. Protection set forth in the referenced standards to NFPA 13 Table 10.1.1 or 10 mil plastic is acceptable.
- ☐ Verify the clearance around the diameter of the pipe. A minimum of 2-inch clearance is required around the diameter, i.e. the opening in the floor is to be 4-inch greater diameter than the outside diameter of the in-building riser (NFPA 13 Section 9.3.4.2).
- ☐ Verify correct depth of bury. The minimum depth of bury, measured from the grade to the top of the pipe, is to be 3-1/2 feet (NFPA 13 Sections 10.4.1 and A.10.4.1).